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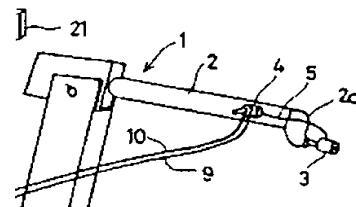
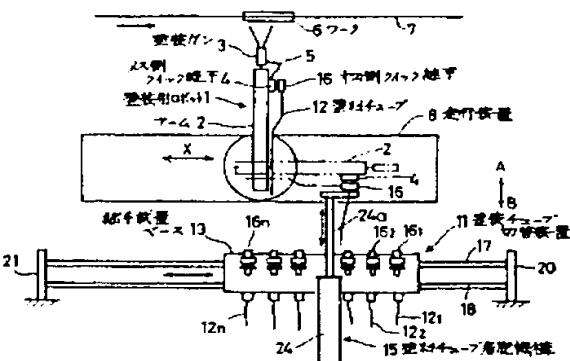
APPLICATION DATE : 20-02-90
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APPLICANT : TOKICO LTD;

INVENTOR : AIZAWA KENSUKE;

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TITLE : TUBE CHANGEOVER EQUIPMENT



ABSTRACT : PURPOSE: To prevent increase of load on a motor by equipping both a first and second joints and a tube changeover means which communicates a common tube with a liquid supply tube.

CONSTITUTION: A coating gun 3 is fitted to the wrist part 2a of the arm 2 of a robot 1 for coating. A female-side quick joint 4 is fitted to the side face of the arm 2 in the vicinity of the coating gun 3. The joint 4 is connected to the coating gun 3 via a tube 5. Further a thinner tube 9 and an air tube 10 are connected to the joint 4. One liquid supply tube is selected by a detaching mechanism 15 of a coating tube. A male-side quick joint 16 provided to this liquid supply tube is connected to the joint 4. Thereby both the joint 4 and a plurality of joints 16 are automatically changed over. Connection of a plurality of tubes 16 and the common tube 5 is easily changed over. Therefore it is made unnecessary that a plurality of changeover valves are provided on the arm 1. Weight allowed to act on the arm is reduced and increase of load on a motor for driving the arm is prevented.

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